

# "EAST" SEARCH HISTORY

10/765,988

- 525 -  
SEARCH  
↓

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("3993651").PN.	USPAT	OR	OFF	2005/09/15 10:11
L2	1	("6627756").PN.	USPAT	OR	OFF	2005/09/15 11:31
L3	1	("4216323").PN.	USPAT	OR	OFF	2005/09/15 11:41
L4	1	("5741906").PN.	USPAT	OR	OFF	2005/09/15 11:42
L5	1	("6552194").PN.	USPAT	OR	OFF	2005/09/15 12:04
L6	1	("4017494").PN.	USPAT	OR	OFF	2005/09/15 12:05
L7	1	("3297701").PN.	USPAT	OR	OFF	2005/09/15 12:05
L8	1	("4084758").PN.	USPAT	OR	OFF	2005/09/15 12:06
L9	1	("4757143").PN.	USPAT	OR	OFF	2005/09/15 12:07
L10	1	("0446320").PN.	USPAT	OR	OFF	2005/09/15 12:08
L11	1	("4463320").PN.	USPAT	OR	OFF	2005/09/15 12:08
L12	1	("4582904").PN.	USPAT	OR	OFF	2005/09/15 12:12
L13	4	"952152"	EPO; JPO; DERWENT	OR	OFF	2005/09/15 12:13
L14	3	"2611069"	EPO; JPO; DERWENT	OR	OFF	2005/09/15 12:23
L15	86	544/352	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/15 12:24
L16	37	I15 and (alcohol or methanol or ethanol or ether) and (vapor or vapour or gaseous) and (asorbent or charcoal or carbon or (ion adj exchange))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/15 12:25
L17	37	I15 and (alcohol or methanol or ethanol or ether) and (vapor or vapour or gaseous) and (adsorbent or charcoal or carbon or (ion adj exchange))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/15 12:32
L18	16	I17 and (activated adj carbon or charcoal or resin)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/15 12:33

10/765,988

STN SEARCH TRANSCRIPT

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PASSWORD:
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NEWS 3 JUL 20 Powerful new interactive analysis and visualization software,
      STN AnaVist, now available
NEWS 4 AUG 11 Derwent World Patents Index(R) web-based training during
      August
NEWS 5 AUG 11 STN AnaVist workshops to be held in North America
NEWS 6 AUG 30 CA/CAPLUS -Increased access to 19th century research documents
NEWS 7 AUG 30 CASREACT - Enhanced with displayable reaction conditions
NEWS 8 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0. CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP).
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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NEWS WWW CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 13:06:37 ON 15 SEP 2005

=> FILE REG
COST IN U.S. DOLLARS SINCE FILE TOTAL
SESSION
FULL ESTIMATED COST 0.21 0.21

FILE 'REGISTRY' ENTERED AT 13:06:42 ON 15 SEP 2005
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STRUCTURE FILE UPDATES: 14 SEP 2005 HIGHEST RN 863180-19-2

DICTIONARY FILE UPDATES: 14 SEP 2005 HIGHEST RN 863180-19-2
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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005
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* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *****
Structure search iteration limits have been increased. See HELP SLIMITS
for details.
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registries.html
=> S TEDA 2 TEDA
L1
=> D 1-2
L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN
RN 847910-60-5 REGISTRY
ED Entered STN: 05 Apr 2005
CN TEDA-L 33E (9CI) (CA INDEX NAME)
ENTE An amine catalyst containing 33% triethylenediamine in ethylene glycol
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
L1 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN
RN 280-57-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1,4-Diazabicyclo[2.2.2]octane (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,4-Ethylenepiperazine
CN A 33
CN Bicyclo[2.2.2]-1,4-diazoctane
CN D 33LV
CN Dabco
CN Dabco 33LV
CN Dabco 3LV
CN Dabco Crystalline
CN Dabco L 1202
CN Dabco S 25
CN Jeffcat TD 100
CN L 33
CN L 33E
CN LC 96003
```

CN Minico L 1020  
CN N,N'-endo-Ethylenepiperazine  
CN Nix A 33  
CN NSC 56362  
CN PC CAT TD 33  
CN Polycat 33LV  
CN TD 100  
CN TED  
CN TEDA  
CN Teda L 33  
CN Tegamine 33  
CN Tego Amine  
CN Texacat TD 100  
CN Thacat TD 33  
CN Thancat TD 33  
CN Thancat TD 33A  
CN Toral SM 2  
CN Toyocat L 33  
CN Toyocat Teda L 33  
CN Triethylenediamine  
CN 3D CONCORD  
CN 23790-33-2, 101484-19-9, 150605-01-9, 88935-43-7, 203072-11-1, 309955-09-7  
CN C6 H12 N2  
CN COM, RPS  
CN STN Files: ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO,  
CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,  
CHEMINFORMRX, CHEMLIST, CIN, CSICHEM, CSNB, DETHERM\*, DIPPR\*, EMBASE,  
ENCOMPLIT, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, GMELIN\*, HODOC\*, HSDB\*,  
IPICDB, IFIPAT, IFIUD, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC, PIRA, PROMT,  
RIECS\*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VTB  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5205 REFERENCES IN FILE CA (1907 TO DATE)  
247 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
5221 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
107 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> FILE CAPLUS  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST  
SINCE FILE ENTRY TOTAL  
8.71 8.92

FILE 'CAPLUS' ENTERED AT 13-07-13 ON 15 SEP 2005  
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FILE LAST UPDATED: 14 Sep 2005 (20050914/BD)

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=> S 280-57-9/RN  
5221 280-57-9  
247 280-57-9D  
L2 5008 280-57-9/RN (NOTL) 280-57-9D )  
(280-57-9

=> S L2/PREP  
FIELD CODES CANNOT BE CHANGED HERE  
You may have tried to apply a field code to a term that already has a field code. You can only add a field code to a term that has no field code appended to it.

=> S 280-57-9/PREP  
5221 280-57-9  
3357108 PREP/RL  
L3 261 280-57-9/PREP (280-57-9 (L) PREP/RL)

=> S L3 AND ADSORBENT  
60000 ADSORBENT  
44590 ADSORBENTS  
77817 ADSORBENT  
(ADSORBENT OR ADSORBENTS)

L4 4 L3 AND ADSORBENT

=> D 1-4

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2004:625844 CAPLUS  
DN 141:157137  
TI Decolorization and color stabilization of TEDA-solutions  
IN Ciprian, Juergen; Frauenkron, Matthias; Maurer, Stephan; Meider, Johann-Peter  
PA BASF Aktiengesellschaft, Germany  
SO Eur. Pat. Appl., 12 pp.  
CODEN: EPXXDW

DT Patent  
LA German  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1443048	A1	20040804	EP 2004-1777	20040128
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
DE 10303696	A1	20040812	DE 2003-4303696	20030130
US 2004186291	A1	20040923	US 2004-765988	20040129
JP 2004231659	A2	20040819	JP 2004-24570	20040130
PRA1 DE 2003-10303696	A	20030130		

APPLICANTS

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2000:855787 CAPLUS  
DN 134:10101  
TI Crystalline manganese (II/III) phosphate compositions  
IN Lewis, Gregory J.  
PA UOP LLC, USA  
SO U.S., 18 pp.  
CODEN: USXXAM  
DT Patent  
LA English  
FAN, CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6156931	A	20001205	US 1999-275202	19990324
US 6512144	B1	20030128	US 2000-728536	20001201
US 1999-275202	A2	19990324		

RE, CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 1986:91513 CAPLUS  
DN 104:91513  
TI Zinc-aluminum-phosphorus-silicon-oxide molecular sieve compositions  
IN Lok, Brent Mei Tak; Vail, Lawrence David; Flanigen, Edith Marie  
PA Union Carbide Corp., USA  
SO Eur. Pat. Appl., 84 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
FAN, CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 158975	A2	19851023	EP 1985-104384	19850411
EP 158975	A3	19860205		
EP 158975	B1	19890118		
US 4935216	A	19900619	US 1984-600170	19840413
CA 1248079	A1	19890103	CA 1985-478437	19850404
JP 60231414	A2	19851118	JP 1985-76916	19850412
CN 85103257	A	19870107	CN 1985-103257	19850427
CN 1009820	B	19901003		
CN 1053018	A	19910717	CN 1990-107010	19850427
US 1984-600170	A	19840413		
CN 1985-103257	A	19850427		

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 1986:7812 CAPLUS  
DN 104:7812  
TI Molecular sieve compositions  
IN Flanigen, Edith Marie; Lok, Brent Mei Tak; Marcus, Bonita Kristoffersen;  
Messina, Celeste Anne; Wilson, Stephen Thomas  
PA Union Carbide Corp., USA  
SO Eur. Pat. Appl., 58 pp  
CODEN: EPXXDW  
DT Patent  
LA English  
FAN, CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 158977	A2	19851023	EP 1985-104391	19850411
EP 158977	A3	19870311		
EP 158977	B1	19890906		

R: BE, DE, FR, GB, IT, NL

CN 85101026 A 19870110 CN 1985-101026 19850401  
CN 1011959 B 19910313  
CA 1241627 A1 19880906 CA 1985-478433 19850404  
JP 60260414 A2 19851223 JP 1985-76911 19850412  
US 4952384 A 19900828 US 1988-197407 19880520  
US 4956165 A 19900911 US 1988-196541 19880520  
PRAI US 1984-599810 A 19840413  
US 1986-902020 B1 19860902

=> D ABS 2-4

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
AB A new family of crystalline manganese phosphate compns. has been prepared  
These compns. have an extended network which network can be a one-, two-, or three-dimensional network. The composition has an empirical formula of: (A3+)V(Mn2+) (MC+)xPyOz where A is a structure directing agent such as an alkali metal, M is a metal such as Al, Fe3+, and "b" is the average manganese oxidation state and varies from greater than 2.0 to a maximum of 3.0. These compns. can be used as adsorbents and as catalysts in the oxidation of hydrocarbons.

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
AB A novel class of crystalline microporous mol. sieves and a method of their preparation are described. The mol. sieves have 3-dimensional microporous framework structures of ZnO2, AlO2, SiO2, and PO2 tetrahedral units and an empirical chemical composition on an anhydrous basis expressed by the formula mK:(ZnAlxPysiz)O2 where R represents an organic templating agent present in the intracryst. pore system, m the molar amount of R present per mol of (ZnAlxPysiz)O2, and W, X, Y, Z. The mole fractions of Zn, Al, P, and Si, resp. present as tetrahedral oxides. The zeolites can be used as adsorbents or catalysts.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
AB A novel class of crystalline microporous mol. sieves and a method of their preparation are described. The mol. sieves have 3-dimensional microporous framework structures of Mo2n, AlO2, and PO2 tetrahedral oxide units and an empirical chemical composition on an anhydrous basis expressed by the formula mK:(MxAlYpZ)O2, where R represents an organic templating agent present in the intracryst. pore system, M is Fe and/or Ti, Co, Mg, Mn, or Zn, n is 0, -1, or -2, m the molar amount of R present per mol of (MxAlYpZ)O2 and x, y, z the mole fractions of M, Al, and P, resp., present as tetrahedral oxides. The zeolites can be used as adsorbents or catalysts.

=> S L3 NOT L4  
L5 257 L3 NOT L4

=> S L5 AND (CHARCOAL OR ACTIVATED CARBON)  
45941 CHARCOAL  
1745 CHARCOALS  
46179 CHARCOAL  
(CCHARCOAL OR CHARCOALS)  
471582 ACTIVATED  
1143132 CARBON  
25157 CARBONS  
1152188 CARBON  
(CARBON OR CARBONS)  
43629 ACTIVATED CARBON  
( ACTIVATED(W) CARBON)  
L6 1 L5 AND (CHARCOAL OR ACTIVATED CARBON)

=> D

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2004:139585 CAPLUS  
DN 140:188920  
TI Gas absorber  
IN Kiyama, Yukihiro  
PA Toyobo Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 6 pp.  
CODEN: JKXAF  
DT Patent  
LA Japanese  
FAN.CNT 1  
PATENT NO. KIND DATE APPLICATION NO. DATE  
-----  
PI JP 2004053320 A2 20040219 JP 2002-208650 20020717  
PRAI JP 2002-208650 20020717

=> D ABS

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN  
AB The invention relates to a gas absorber, suited for use in removing radioactive iodine, especially methyl iodide, from the waste gas generated at a nuclear power plant, comprising an amine-affixed activated carbon fiber sheet that is laminated with a protective sheet on one side, wherein the activated carbon fiber comprises the 3-30 nm size pores having the volume 0.15 cc/g and 0.53 nm size pores having the volume 0.50 cc/g.

=> S L5 AND (ION EXCHANGE RESIN)

1111009 ION  
697314 IONS  
1476255 ION  
(ION OR IONS)  
539511 EXCHANGE  
16231 EXCHANGES  
547198 EXCHANGE  
(EXCHANGE OR EXCHANGES)  
574567 RESIN  
385553 RESINS  
707111 RESIN  
(RESIN OR RESINS)  
26164 ION EXCHANGE RESIN  
(ION(W) EXCHANGE (W) RESIN)

L7 0 L5 AND (ION EXCHANGE RESIN)

=> S L5 AND MONOHYDRIC ALCOHOL  
5260 MONOHYDRIC  
228272 ALCOHOL  
156939 ALCOHOLS  
356312 ALCOHOL  
(ALCOHOL OR ALCOHOLS)  
558494 ALC  
185569 ALCS  
653225 ALC  
(ALC OR ALCS)  
781896 ALCOHOL  
(ALCOHOL OR ALC)  
3352 MONOHYDRIC ALCOHOL  
(MONOHYDRIC(W) ALCOHOL)

L8 0 L5 AND MONOHYDRIC ALCOHOL

=> S L5 AND (METHANOL OR ETHANOL OR PROPANOL OR BUTANOL)

183093 METHANOL  
678 METHANOLS  
183449 METHANOL  
(METHANOL OR METHANOLS)  
233239 ETHANOL  
1106 ETHANOLS  
233779 ETHANOL  
(ETHANOL OR ETHANOLS)  
70837 PROPANOL  
1593 PROPANOLS  
71511 PROPANOL  
(PROPANOL OR PROPANOLS)  
58265 BUTANOL  
923 BUTANOLS  
58605 BUTANOL  
(BUTANOL OR BUTANOLS)  
L9 21 L5 AND (METHANOL OR ETHANOL OR PROPANOL OR BUTANOL)

=> S L9 AND (VAPOR OR VAPOUR OR GASEOUS)

431868 VAPOR  
69992 VAPORS  
533288 VAPOR  
(VAPOR OR VAPORS)  
2084 VAPOUR  
175 VAPOURS  
2250 VAPOUR  
(VAPOUR OR VAPOURS)  
163165 GASEOUS  
0 L9 AND (VAPOR OR VAPOUR OR GASEOUS)

=> S L9 AND QUENCH

18301 QUENCH  
2524 QUENCHES  
20418 QUENCH  
(QUENCH OR QUENCHES)  
L11 0 L9 AND QUENCH

=> D L9 1-21

L9 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2005:5471 CAPLUS  
DN 142:392437  
TI Process for the preparation of triethylenediamine from by-product of piperazine  
IN Chen, Ligong; Bai, Guoyi; Li, Yang; Song, Jian; Wang, Donghua  
PA Tianing University, Peop. Rep. China  
SO Faming Zhuanli Shengqing Gongkai Shuomingshu, 10 pp.  
CODEN: CNXEV  
DT Patent  
LA Chinese  
FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE  
-----  
PI CN 1478780 A 20040303 CN 2002-129060 20020830  
PRAI CN 2002-129060 20020830  
OS CASREACT 142:392437

L9 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2004:414961 CAPLUS  
DN 141:156813

TI Continuous Chemoselective Methylation of Functionalized Amines and Diols with Supercritical Methanol over Solid Acid and Acid-Base Bifunctional Catalysts

AU Oku, Tomoharu; Arita, Yoshitaka; Tauneki, Hideaki; Ikariya, Takao

CS Graduate School of Science and Engineering and Frontier Collaborative Research Center Tokyo Institute of Technology and Joint Research Center for Supercritical Fluids, Japan Chemical Innovation Institute, Tokyo, 152-8552, Japan  
SO Journal of the American Chemical Society (2004), 126(23), 7368-7377  
CODEN: JACSAT; ISSN: 0002-7863  
PB American Chemical Society  
DT Journal  
LA English  
OS CASREACT 141-156813  
RE.CNT 74 THERE ARE 74 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2004:60183 CAPLUS  
DN 140:128163  
TI Substantially apherical supramolecular assemblies based on Platonic and Archimedian solids, their preparation from calixarenes and other multifunctional compounds, and their uses  
IN Akwood, Jerry L.; Macgillivray, Leonard R.  
PA USA  
SO U.S. Pat. Appl. Publ., 23 pp., Cont. of U.S. Ser. No. 319,136, abandoned.  
CODEN: USXXCO  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004014963	A1	20040122	US 2003-408605	20030407
US 1999-319136	B1	19991109		
MARPAT 140:128163				

L9 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2003:221692 CAPLUS  
DN 138:239702

TI Production of solutions of highly purified triethylenediamine  
IN Lang, Ortmund; Rumpf, Bernd; Frauenkron, Matthias; Manderbach, Thomas; Stein, Bernd  
PA BASF Aktiengesellschaft, Germany  
SO PCT Int. Appl., 23 pp.  
CODEN: PIXXD2  
DT Patent  
LA German  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003022851	A1	20030320	WO 2002-EP10197	20020911
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, LU, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CO, CI, CN, GM, GN, GW, ML, MR, NE, SN, TD, TG			

DE 10145117  
EP 1427731  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK  
CN 1553914  
JP 2005507879

THIS IS ONE IS DIFF INVENTIVE ENTRY.  
RELATED APP IN SAME INVENTIVE ENTRY NO. 102607

US 2004220405 A1 20041104 US 2004-488978 20040309  
PRAI DE 2001-10145117 A 20040513  
WO 2002-EP10197 W 20020911  
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2002:865553 CAPLUS  
DN 137:354699  
TI Extractive method for the recovery of high-purity triethylenediamine from mother liquor  
IN Lang, Ortmund; Rumpf, Bernd; Frauenkron, Matthias; Punhoff, Dirk; Manderbach, Thomas; Stein, Bernd  
PA BASF AG, Germany  
SO Ger. Offen., 6 pp.  
CODEN: GWXXBX  
DT Patent  
LA German  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10122502	A1	20021114	DE 2001-10122502	20010510
US 2003004349	A1	20030102	US 2002-138337	20020506
EP 1258485	A1	20021120	EP 2002-10129	20020510
EP 1258485	B1	20050622		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
CN 1385430	A	20021218	CN 2002-117652	20020510
JP 2002363181	A2	20021218	JP 2002-136221	20020510
JP 298340	E	20050715	AT 2002-10129	20020510
DE 2001-10122502	A	20010510		

L9 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2002:756475 CAPLUS  
DN 138:187378

TI Enhanced product selectivity in continuous N-methylation of amino alcohols over solid acid-base catalysts with supercritical methanol  
AU Oku, Tomoharu; Ikariya, Takao  
CS Graduate School of Science and Engineering, Tokyo Institute of Technology, Tokyo, 152-8552, Japan  
SO Angewandte Chemie, International Edition (2002), 41(18), 3476-3479  
CODEN: ACIEF5; ISSN: 1433-7851  
PB Wiley-VCH Verlag GmbH & Co. KGaA  
DT Journal  
LA English  
OS CASREACT 138-187378  
RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2002:609960 CAPLUS  
DN 137:155527  
TI Acid-blocked amine catalysts for production of polyurethane foams with desired balance of gelling and blowing effects  
IN Wendel, Stephan Herman; Fard-Aghaie, Reza  
PA Air Products and Chemicals, Inc., USA  
SO U.S., 6 pp.  
CODEN: USXXAM  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6432864	B1	20020813	US 2001-832502	20010411

APP IN DATE  
↓  
APP IN DATE  
NO GOOD

SAME INVENTIVE ENTRY - NOT IN 102 (C) ART

BR 2003001089 A 20030527 BR 2002-1089 20020405  
 EP 1249461 A2 20020106 EP 2002-7930 20020409  
 EP 1249461 A3 20030226  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
 B1 20041006  
 AT 278725 E 20041015 AT 2002-7930 20020409  
 PT 1249461 T 20050131 PT 2002-7930 20020409  
 ES 2225678 T3 20050316 ES 2002-2007930 20020409  
 JP 2002371120 A2 20021226 JP 2002-107721 20020410  
 CN 1380347 A 20021120 CN 2002-105538 20020411  
 US 2003032553 A1 20030213 US 2002-174383 20020618  
 US 6525107 B2 20030225  
 PRAI US 2001-832502 A 20010411  
 OS MARPAT 137:155527  
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1995:1006738 CAPLUS  
 DN 124:89434  
 TI Method of recycling unsaturated polyester resin waste  
 IN Kubota, Shizuo; Ito, Osamu; Miyamoto, Hiroyuki  
 PA Miyaso Chemical Co., Japan  
 SO U.S., 5 PP.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 3

PATENT NO. KIND DATE APPLICATION NO. DATE  
 -----  
 PI US 5468780 A 19951121 US 1995-398689 19950306  
 US 5620665 A 19970415 US 1995-492147 19950619  
 PRAI JP 1994-138762 A 19940621 19940621  
 JP 1994-316285 A 19941220  
 US 1995-398689 A2 19950306  
 JP 1995-116111 A 19950515

L9 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1994:216629 CAPLUS  
 DN 120:216629  
 TI Reactions of aliphatic- $\omega$ -diamines in H<sub>2</sub>-pentasils  
 AU Reichle, Walter T.  
 CS Spec. Chem. Div., Union Carbide Chem. and Plast. Co., Bound Brook, NJ,  
 0805, USA  
 SO Journal of Catalysis (1993), 144(2), 556-68  
 CODEN: JCTLAS; ISSN: 0021-9517  
 DT Journal  
 LA English  
 OS CASREACT 120:216629

L9 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1992:551015 CAPLUS  
 DN 117:151015  
 TI Metal oxide-catalyzed decarboxylation reaction of organic carbonates  
 IN King, Stephen Wayne; Olson, Kurt Damar; Ream, Bernard Claude  
 PA Union Carbide Chemicals and Plastics Co., Inc., USA  
 SO Eur. Pat. Appl., 33 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE  
 -----  
 PI US 5468780 A 19951121 US 1995-398689 19950306  
 US 5620665 A 19970415 US 1995-492147 19950619  
 PRAI JP 1994-138762 A 19940621 19940621  
 JP 1994-316285 A 19941220  
 US 1995-398689 A2 19950306  
 JP 1995-116111 A 19950515

PI EP 478075 A2 19920401 EP 1991-202425 19910919  
 EP 478075 A3 19921119  
 EP 478075 B1 19981111  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE  
 US 5164497 A 19921117 US 1990-585556  
 CA 2051484 A 19920321 CA 1991-2051484  
 CA 2051484 C 19970304  
 AU 9184643 A1 19920402 AU 1991-84643  
 JP 04279540 A1 19921005 JP 1991-266992 19910919  
 JP 2889975 B2 19900510 JP 1991-266992 19910919  
 AT 173242 E 19881115 AT 1991-202425 19910919  
 ES 2123504 T3 19990116 ES 1991-202425 19910919  
 KR 180242 B1 19990515 KR 1991-16367 19910919  
 PRAI US 1990-585556 A 19900920

L9 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1990:58737 CAPLUS  
 DN 112:58737  
 TI Process and catalysts for the manufacture of amines  
 IN Olson, Kurt Damar; Kaiser, Steven William; Reichle, Walter Thomsen;  
 Domaux, Arthur Roy, Jr.; Schreck, David James; McCain, James Herndon  
 PA Union Carbide Corp., USA  
 SO PCT Int. Appl., 259 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE  
 -----  
 PI WO 8905810 A1 19890629 WO 1988-US4454 19881216  
 W: JP  
 RW: BE, DE, FR, GB, IT, NL, SE  
 US 4973709 A 19901127  
 EP 345330 A1 19891213 EP 1989-900779 19881216  
 R: BE, DE, FR, GB, IT, NL, SE  
 JP 02502541 T2 19900816 JP 1989-500651 19881216  
 JP 03127764 A2 19910530 JP 1989-262300 19891009  
 PRAI US 1987-134815 A 19871218  
 US 1988-282371 A 19881213  
 WO 1988-US4454 W 19881216

L9 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1990:23075 CAPLUS  
 DN 112:23075  
 TI Experiments on zeolite formation from non-aqueous media  
 AU Perniklau, Ernest  
 CS Dr. C. Otto Feuerfest G.m.b.H., Bochum, 4630/5, Fed. Rep. Ger.  
 SO Neues Jahrbuch fuer Mineralogie, Monatshefte (1989), (9), 385-9  
 CODEN: NJMMAW; ISSN: 0028-3649  
 DT Journal  
 LA English

L9 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1989:515134 CAPLUS  
 DN 111:115134  
 TI Synthesis and pharmacological study of 4-azanalogs of phencarol  
 AU Vysokhin, V. I.; Vorob'eva, V. Ya.; Kaminka, M. E.; Shevchenko, I. L.;  
 Mashkovskii, M. D.  
 CS VNIKhFI im. Ordzhonikidze, Moscow, USSR  
 SO Khimiko-Farmatsevticheskii Zhurnal (1989), 23(1), 30-5  
 CODEN: KHFZAN; ISSN: 0023-1134  
 DT Journal  
 LA Russian





AU 8284656 A1 19830106 AU 1982-84656 19820608  
CA 1198428 A1 19851224 CA 1982-405618 19820621  
BR 8203774 A 19830621 BR 1982-3774 19820628  
ES 513523 A1 19831216 ES 1982-513523 19820628  
AT 36654 E 19880915 AT 1982-105731 19820628  
JP 58017839 A2 19830202 JP 1982-112434 19820629  
JP 01013701 B4 19890307 19831230  
CA 1198429 A2 19851224 CA 1983-444540  
PRAI US 1981-278814 A 19810629  
US 1982-381232 A 19820524  
US 1982-381233 A 19820524  
CA 1982-405618 A3 19820621  
EP 1982-105731 A 19820628

=> D ABS 9  
L11 HAS NO ANSWERS  
L3 261 SEA FILE=CAPLUS ABB=ON PLU=ON 280-57-9/PPREP  
L4 4 SEA FILE=CAPLUS ABB=ON PLU=ON L3 AND ADSORBENT  
L5 257 SEA FILE=CAPLUS ABB=ON PLU=ON L3 NOT L4  
L9 21 SEA FILE=CAPLUS ABB=ON PLU=ON L5 AND (METHANOL OR ETHANOL OR  
PROPANOL OR BUTANOL)  
L11 0 SEA FILE=CAPLUS ABB=ON PLU=ON L9 AND QUENCH

=> D L9 ABS 9  
L9 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN  
Q1 For diagram(e), see printed CA Issue.  
AB "m-Diamines [H<sub>2</sub>N(CH<sub>2</sub>)<sub>n</sub>NH<sub>2</sub>, n = 2-7] undergo surprisingly  
different reactions in the presence of steam, using a H<sup>+</sup>-pentasil zeolite  
(Si/Al = 25-19,000) at 350°, a LHSV approx. 0.8 h<sup>-1</sup>, atmospheric pressure  
in a plug flow reactor. Ethylenediamine and its linear and cyclic  
oligomers result in piperazine and 1,4-dibicyclo(2.2.2)octane (TEDA), the  
latter in excellent efficiencies (.apprx.90%) and good rates (.apprx.30%  
conversion/pass) probably via the reaction of piperazine with protonated  
vinylamine. Minor byproducts originate from a reductive cleavage reaction  
and alkylpyrazine formation. 1,3-Propanediamine results in .apprx.40%  
alkylpyridines, a small amount of allylamine and reductive cleavage products  
on balance. 1,4-Butanediamine was completely unreactive even at  
400°. The 1,5-, 1,6-, and 1,7-diamines form almost exclusively the  
cyclic secondary amines I (n = 5, 6, 7). This diverse chem has been  
rationalized based on differing reaction intermediates and transition  
states. The reductive cleavage reaction (yielding CH<sub>3</sub>NH<sub>2</sub>, CH<sub>3</sub>CH<sub>2</sub>NH<sub>2</sub>,  
etc.) takes place only with n = 2 and 3 diamines. The pyrazines (n = 2)  
and pyridines (n = 3) generated are probably due to amine dehydrogenation,  
imine hydrolysis, followed by aldol and related condensation and  
dehydration/dehydrogenations of the intermediates to yield the aromatic  
products. The inactivity of the n = 4 may be due to high strain in the  
intramol. cyclization step which exists to lesser degree in 1,5-, 1,6-,  
and 1,7-diamines, as judged by their widely differing activities.

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LOGOFF? (Y)/N/HOLD:Y  
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FULL ESTIMATED COST  
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  
CA SUBSCRIBER PRICE

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ENTRY	SESSION
83.69	92.61
SINCE FILE	TOTAL
ENTRY	SESSION
-3.65	-3.65

\*\*\*\*\* STN Columbus \*\*\*\*\*

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SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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FILE LAST UPDATED: 14 Sep 2005 (20050914/ED)

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=> S 1988:454268/AN

L1 1 1988:454268/AN

=> D IBIB ABS

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:454268 CAPLUS

DOCUMENT NUMBER: 109:54268

TITLE: Selective catalytic syntheses of mixed alkyl amines

AUTHOR(S): Labadie, J. W.; Dixon, D. D.

CORPORATE SOURCE: Corp. Sci. Cent., Air Prod. Chem., Inc., Allentown, PA, 18105, USA

SOURCE: Journal of Molecular Catalysis (1987), 42(3), 367-78

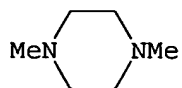
CODEN: JMCADS; ISSN: 0304-5102

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 109:54268

GI



I

AB Selective synthesis of mixed alkyl amines was achieved by amine-alc. condensation over SrHPO<sub>4</sub>. Condensation occurred without product equilibration over the catalyst, and consequently amine products could be

prepared selectively by appropriate control of the reaction conditions. New synthetic routes to several polyfunctional mixed amines were developed from readily available starting materials. Tertiary methylamines reacted with alcs. when a cyclic product could be formed. Thus, treatment of (HOCH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>NMe with Me<sub>2</sub>NH in the presence of SrHPO<sub>4</sub> at 260° and 780 psig gave 45% HOCH<sub>2</sub>CH<sub>2</sub>NMeCH<sub>2</sub>CH<sub>2</sub>NMe<sub>2</sub> and 13% N,N'-dimethylpiperazine (I). Initial results favor a mechanism in which a phosphate ester is formed on the catalyst surface and then undergoes a nucleophilic displacement reaction with the reactant amine.

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LOGOFF? (Y)/N/HOLD:Y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
4.99	5.20

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.73	-0.73

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STN INTERNATIONAL LOGOFF AT 13:36:12 ON 15 SEP 2005

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NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 JUL 20 Powerful new interactive analysis and visualization software,  
STN AnaVist, now available  
NEWS 4 AUG 11 Derwent World Patents Index(R) web-based training during  
August  
NEWS 5 AUG 11 STN AnaVist workshops to be held in North America  
NEWS 6 AUG 30 CA/Caplus -Increased access to 19th century research documents  
NEWS 7 AUG 30 CASREACT - Enhanced with displayable reaction conditions  
NEWS 8 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

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FILE COVERS 1907 - 15 Sep 2005 VOL 143 ISS 12  
FILE LAST UPDATED: 14 Sep 2005 (20050914/ED)

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THIS PART  
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THE MEAN  
"POLYHYDRIC"  
THE SPEC. BEARS  
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ERROR IN CL.  
DRAFTING.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 280-57-9/prep  
5221 280-57-9  
3357108 PREP/RL  
L1 261 280-57-9/PREP  
(280-57-9 (L) PREP/RL)

=> s l1 and polyhydric  
28302 POLYHYDRIC  
2 POLYHYDRICS  
28302 POLYHYDRIC  
(POLYHYDRIC OR POLYHYDRICS)  
L2 1 L1 AND POLYHYDRIC

=> d

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2002:286003 CAPLUS  
DN 136:310883  
TI Manufacture of foamed polyurethane rolls without entrapping air and electrophotographic apparatus assembled with the same  
IN Fukuda, Hiroya; Satoyoshi, Minoru; Takahashi, Wataru  
PA Bridgestone Corp., Japan  
SO Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002113727	A2	20020416	JP 2000-307403	20001006
PRAI	JP 2000-307403		20001006		

=> d abs

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN  
AB A roller having a shaft surrounded with a foamed polyurethane, especially useful  
for a toner supply roller, is manufactured by blowing a raw material in a column, the volume of the blowing space in the column being increased continuously in accordance with the blowing/expansion velocity, followed by curing the obtained foam. Thus, an expandable compound comprised (a) a 70:30 trifunctional polyether polyol/ styrene-grafted polymer polyol mixture, triethylenediamine, N-methylmorpholin, water, and a silicone foam stabilizer and (b) a 50:50 TDI 80/polymeric MDI mixture, blended at NCO index 105. A SUS stainless steel column with a movable top and a shaft disposed in the center of the column was employed. The compound was injected into the space surrounded with the column wall and the movable top, then the upper cap was mounted thereon. The blowing pressure pushed the top downwardly, and after .apprx.90 s, the column was filled with a foamed body which was then cured at 90° and demolded to give a roller free from void and having uniform cell size and d.

=> s l1 and glycol  
336099 GLYCOL  
44125 GLYCOLS  
351168 GLYCOL  
(GLYCOL OR GLYCOLS)  
L3 42 L1 AND GLYCOL

=> s l3 and quench  
 18301 QUENCH  
 2524 QUENCHES  
 20418 QUENCH  
 (QUENCH OR QUENCHES)  
 L4 0 L3 AND QUENCH

=> s l3 and (vapor or vapour)  
 491868 VAPOR  
 69992 VAPORS  
 533288 VAPOR  
 (VAPOR OR VAPORS)  
 2084 VAPOUR  
 175 VAPOURS  
 2250 VAPOUR  
 (VAPOUR OR VAPOURS)  
 L5 0 L3 AND (VAPOR OR VAPOUR)

=> s l3 and gaseous  
 163165 GASEOUS  
 L6 1 L3 AND GASEOUS

=> d

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2004:625844 CAPLUS  
 DN 141:157137  
 TI Decolorization and color stabilization of TEDA-solutions  
 IN Ciprian, Juergen; Frauenkron, Matthias; Maurer, Stephan; Melder,  
 Johann-Peter  
 PA BASF Aktiengesellschaft, Germany  
 SO Eur. Pat. Appl., 12 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1443048	A1	20040804	EP 2004-1777	20040128
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	DE 10303696	A1	20040812	DE 2003-10303696	20030130
	US 2004186291	A1	20040923	US 2004-765988	20040129
	JP 2004231659	A2	20040819	JP 2004-24570	20040130
PRAI	DE 2003-10303696	A	20030130		

=> d abs

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN  
 AB A procedure for preparation of triethylenediamine (TEDA) solns. containing a solvent from the group, polyhydroxy alcs. or ethers, is characterized by:  
 (a) introduction of **gaseous** EDTA into the solvent; (b) treatment of the solution with one or more suitable adsorbents. The procedure is further characterized by: (a) the absorbent exists as compact, suspensions or vortex beds; (b) the process is continuous, discontinuous or semicontinuous. Thus, TEDA was dissolved in dipropylene **glycol** the solution was then treated with a combination of active charcoal powder (PAK 1220) and basic anion exchanger (Ambersep 900, OH- form) to give an APHA color number of 32.5 after 24 h.

```
=> s l3 and polyhydric alcohols
      28302 POLYHYDRIC
        2 POLYHYDRICS
      28302 POLYHYDRIC
          (POLYHYDRIC OR POLYHYDRICS)
      156939 ALCOHOLS
      185569 ALCS
      256502 ALCOHOLS
          (ALCOHOLS OR ALCS)
        8549 POLYHYDRIC ALCOHOLS
          (POLYHYDRIC(W)ALCOHOLS)
L7          0 L3 AND POLYHYDRIC ALCOHOLS
```

```
=> s l3 and polyhydric alcohol
      28302 POLYHYDRIC
        2 POLYHYDRICS
      28302 POLYHYDRIC
          (POLYHYDRIC OR POLYHYDRICS)
      228272 ALCOHOL
      156939 ALCOHOLS
      356312 ALCOHOL
          (ALCOHOL OR ALCOHOLS)
      558494 ALC
      185569 ALCS
      653225 ALC
          (ALC OR ALCS)
      781896 ALCOHOL
          (ALCOHOL OR ALC)
        14011 POLYHYDRIC ALCOHOL
          (POLYHYDRIC(W)ALCOHOL)
L8          0 L3 AND POLYHYDRIC ALCOHOL
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=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	30.68	30.89

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.46	-1.46

STN INTERNATIONAL LOGOFF AT 14:47:14 ON 15 SEP 2005